

KURCCHKIN, K.T.; BAUM, B.A.; FEDOTOV, G.K.; LIRMAN, A.M.; ROSHCHEKTATEV, V.I.

Hydrogen in acid steel made from a liquid semifinished product.
Trudy Ural. politekh. inst. no.116:65-75 '61. (MIRA 16:6)

(Steel-Metallurgy) (Steel-Hydrogen content)

"Some Structural Features of the 10 GeV Synchrontron Electromagnet,"
paper presented at CERN Symposium, 1956, appearing in Nuclear Instruments,
No. 1, pp. 21-30, 1957

40737

S/120/52/000/004/002/047 E032/E514

24.6730 AUTHORS:

Card 1/3

Strel'tsov, N.S., Fedotov, G.M., Rozhdestvenskiy, B.V., Gustov, G.K., Gamulina, V.Ye., Nifontov, Yu.L., Indyukov, N.N., Bezgachev, Ye.A. and Kuryshev, V.S.

TITLE:

The construction of the electromagnet for the 7 GeV

proton synchrotron

PERIODICAL: Pribory i tekhnika eksperimenta, no.4, 1962, 15-19 TEXT': A description is given (including sectional drawings) of the electromagnet. The electromagnet incorporates four types of magnetic sections, namely: 1) bonding sections for radial focusing (total number 42), 2) bending sections for radial defocusing (total number 53), 3) bending sections for radial defocusing, located at points of beam extraction (total number 3), and 4) quadrupole lenses with zero field on the orbit (total number 14). The magnetic circuits of all the sections are assembled from insulated steel sheets (the chemical composition of the steel is similar to 32 (E2) steel). The hyperbolic pole faces were made on a special milling machine and have a curvature of 2780 cm in the horizontal plane. The system used to retain the

The construction of the ...

S/120/62/000/004/002/047 E032/E514

steel sheets in position was such that the deformation of the hyperbolic face was $\pm (0.1-0.15)$ mm after two days and ± 0.03 mm after two months. The design of the neutral pole faces of the bending magnets was such that their deformation and the electrodynamic stresses did not exceed 0.05 mm. The main winding consists of 48 turns connected in series and arranged in ter The winding is made of rectangular copper piping which was manufactured by the Leningrad factory "Krasnyy Vyborzhets". In addition to the main winding, there are three compensating coils which are used to correct the magnetic field. Water cooling is used and the insulation is sufficient to withstand 2 kV. The extracting magnets, which are used to extract the beam into the experimental area, consist of a main coil (8 turns; copper piping) and two compensating coils (8 turns each; copper piping). Finally, the quadrupole lenses carry an 18 turn main winding and an 18 turn auxiliary winding, both in the form of copper piping. In order to facilitate the positioning of all the electromagnets, each of them carried special markers which were used to relate their position to the appropriate points Card 2/3

The construction of the ..

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on the basic geodesic grid. Special mechanisms were used to adjust the magnets. They can be adjusted by ± 2 cm in the vertical plane to an accuracy of 0.001 cm and by ± 8.5 cm in the radial direction to an accuracy of 0.002 cm. The former adjustment is made with the aid of special wedges and the latter by a screw-driven mechanism. The azimuthal adjustment is made by simple wedge devices and can be achieved to an accuracy of ± 0.05 cm. There are 6 figures.

ASSOCIATIONS:

Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury GKAE

(Scientific Research Institute of Electrophysical

Apparatus GKAE) and

Institut teoreticheskoy i eksperimental'noy fiziki GKAE (Institute of Theoretical and Experimental

Physics GKAE)

SUBMITTED:

April 6, 1962

Card 3/3

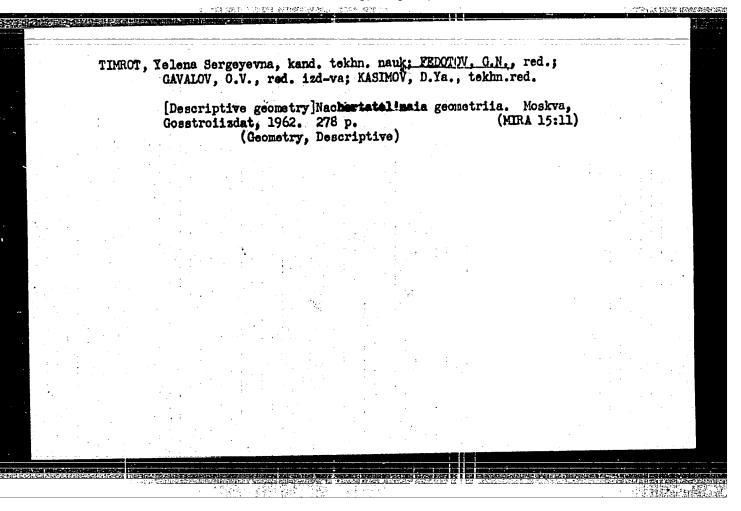
STREL'TSOV, N.S.; FEDOTOV, G.M.; ROZHDESTVENSKIY, B.V.; GUSTOV, G.K.; GAMULINA, V.Ye.; HIFONTOV, Yu.L.; IMDYUKOV, N.N.; BEZGACHEV, Ye.A.; KURYSHEV, V.S.

Prib. i tekh. eksp. 7 no.4:15-19 J1-Ag 162 (MTPA 164)

1. Mauchno-issledovatel skiy institut elektrofizicheskoy apparatury Gosudarstvennogo komiteta po ispol sovaniyu atomnoy energii SSSR i Institut teoreticheskoy i eksperimental ny fiziki Gosudarstvennogo komiteta po ispol sovaniyu atomnoy energii SSSR.

(Electromagnets) (Synchrotron)

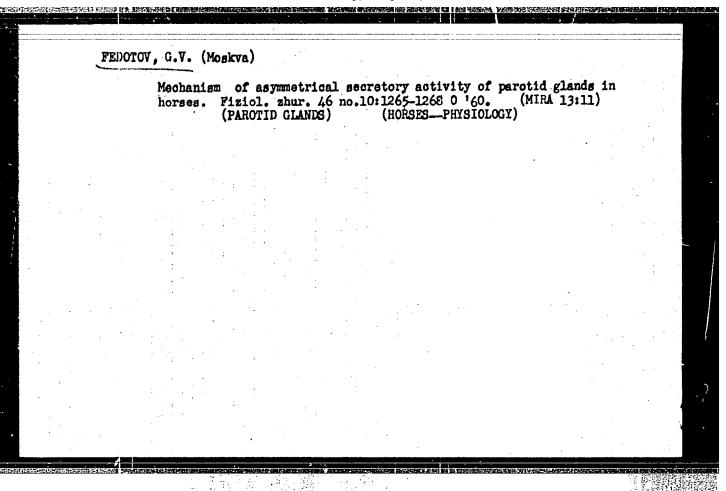
APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000412730



BELCUSOV, M.S., kand. ekon. nauk, dots.; VORONIN, M.G., kand. ekon. nauk; DUNDUKOV, G.S., kand. ekon. nauk, dots.; KAMYSHANOV, P.I., kand. ekon. nauk; KOLESOV, V.S.; KUPFIYENKO, A.N., kand. ekon. nauk; PEN'KOV, Ye.G., kand. ekon. nauk, dots.; SOLONEVICH, F.F., Prinimal uchestiye SMORODIN, M.B.; MUKHIN, N.A., retsenzent; FEDOTOV, G.N., retsenzent; STARCHAKOVA, I.I., red.; KIRAKOZOVA, N.Sh., red.; MEDRISH, D.M., tekhn. red.

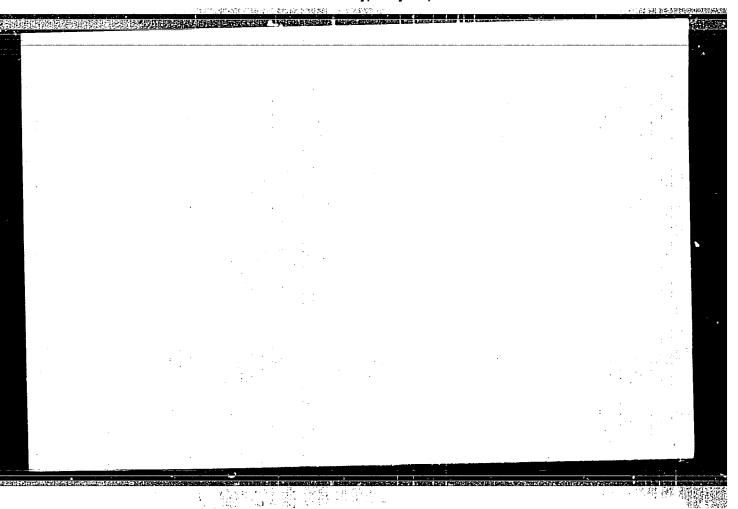
[Accounting in commerce] Bukhgalterskii uchet v torgovle.
[By] M.S.Belousov i dr. Moskva, Gostorgizdat, 1963. 528 p.
(MIRA 17:1)

1. Prepodavateli kafedry bukhgalterskogo ucheta Moskovskogo instituta narodnogo khozyaystva im. G.V.Plakhanova(for Belousov, Voronin, Dundukov, Kamyshanov, Kolesov, Kupriyenko, Pen'kov, Solonevich). 2. Glavnyy bukhgalter Soyuza potrebitel'skikh obshchestv RSFSR (for Fedotov).



к. USSR/Forestry - Forest Cultures. Ref Zhur - Biol., No 4, 1958, 15404 I.A. Fedotov Author Inst Mixed Siberian Larch Cultures in the South East. Title (Smeshannyye kul'tury listevennitsy sibirskoy na Yugovostoke). Lesn. kh-vo, 1957, No 3, 25-27 Orig Pub When putting together mixed plantations in the South Abstract East, it is recommended that the following species accompany the Siberian larch: the Norway maple, the green and white ash (Fraxinus viricis Mchx. and F. american L.), the small-leaved lime tree, the common elm, the spruce and pine, whereas it is recommended that the pine be planted in flower beds. Card 1/1

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S/136/61/000/001/008/010 E193/E283

AUTHORS:

Glukhov, V.P., Sitnikova, T.G. and Fedotov, I.A.

TITLE:

Recovery of Selenium from Slimes by the LGI Method on

Pilot Scale Plant

PERIODICAL: Tsvetnyye metally, 1961, No.1, pp.83-84

TEXT: A method, based on oxidizing roasting of granulated slimes followed by absorption of selenium anhydride by a separate layer of hot sodium carbonate, has been developed at the Leningrad-skiy Gorniy Institut (Leningrad Mining Institute). The selenium-bearing compounds, obtained in this manner, can be processed either by precipitation of selenium from acidic solutions, or by reduction and precipitation of selenium from selenide solutions. The main advantage of this process over the current method of roasting an intimate mixture of slime and sodium carbonate is that higher recovery of selenium is attained in fewer operations, whereby the consumption of materials and electric power is reduced. In pilot plant scale trials, conducted in August and September, 1960 at one of the Soviet Works, slimes from electrolytic refining of copper, containing 6.0-8.0% Se, 1.0% Te, 19-20% Cu, 25% Ni, 1.5% Fe, 3.0% S.

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Recovery of Selenium from Slimes by the LGI Method on Pilot Scale Plant

and 25-30% ${
m H}_2^{\prime}0$, were used as the raw material. The main constituents of the slimes were copper and nickel oxides, 85% of nickel being present in the form of bunsenite, NiO. Selenium was present as Ag2Se and partly in the form of selenides of the platinum metals. The roasting plant consisted of an air heater, a slimes roasting furnace, 2 (1st and 2nd) sodium carbonate furnaces for absorption of selenium, heat exchanger for gases, 2 vacuum pumps, and a pan granulator for pelletizing the raw materials. After preliminary drying (in a vacuum drier) to a moisture content of 15-16%, the slimes were converted to granules 3-10 mm in diameter. Sodium carbonate was granulated in a similar manner after preliminary moistening to a moisture content of 30-33%, and both materials (in the wet state) were then charged into the furnace. After all leaks had been sealed with asbestos tape, the vacuum pump and the roasting furnaces were switched on. At the same time, the fire box of the heater was ignited and air, pre-heated to 600-700°C, was fed into the furnace. In the new method, the heat required for roasting the

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S/136/61/000/001/008/010 E193/E283

Recovery of Selenium from Slimes by the LGI Method on Pilot Scale Plant

charge is supplied mainly by air, the heating elements of the electric furnace serving only to compensate the heat losses, operating temperature of 620-650°C is attained in 2-3 h. The charge is roasted in a stationary layer (no rabbling is employed), the duration of the process depending on the specific air consumption per unit weight of slime which, in this particular case, amounts to 5-6 m'/kg. With 800-900 kg (dry weight) of slime charged in the furquee, operating at 620-630°C, the specific air consumption of 6 m /kg of slime is sufficient to ensure that all selenium di-oxide is distilled off from the charge, the selenium content in the slime residues being 0.01-0.1%. 90% of selenium present in the gaseous phase is absorbed by the first layer of sodium carbonate which, after the completion of the process, contains 20-21% selenium, After roasting, the furnaces are cooled and discharged. The slime residue is subjected to further processing, and the selenium-rich sodium carbonate (from the 1st furnace) is transferred to the selenium shop, where it is dissolved in water, after which selenium is precipitated (with sulphur dioxide) from the acidified solution. Card 3/4

S/136/61/000/001/008/010 E193/E283

Recovery of Selenium from Slimes by the LGI Method on Pilot Scale Plant

Sodium carbonate from the 2nd furnace is used again until it becomes saturated with selenium. At present, work is being completed on designing an industrial plant (expected to be in operation at the beginning of 1961) for recovery of selenium from slimes by the process described above.

Card 4/4

ODINTSOV, V.A.; SOLOV'YEV, V.S.; FEDOTOV, I.D.

Experimental determination of the exponent of the polytropic curve for the detonation products of certain liquid explosives. Izv. vys. ucheb. zav.; fiz. no.5:86-88 '62. (MIRA 15:12)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana.

(Explosition)

PAVIOV, V.A.; KRYUCHKOV, N.F.; FEDUTOV I.D.

Temperature dependence of the elasticity modulus of aluminum—magnesium <-solid solutions. Fis.met. i metalloved. 3 no.3:555-557 '56. (MIRA 10:3)

1. Institut fisiki metallov Ural'skogo filiala AN SSSR. (Aluminun-magnesium alloys)

Fedetov, Luar Dmitrigenich

PHASE I BOOK EXPLOITATION

238

- Betekhtin, Sergey Aleksandrovich; Vinitskiy, Andrey Mikhaylovich, Gorokhov, Mikhail Semnovich; Stanyukovich, Kirill Petrovich; Fedotov, Ivan Dmitriyevich.
- Gazodinamicheskiye osnovy vnutrenney ballistiki (Gas Dynamic Principles of Interior Ballistics) Moscow, Oborongiz, 1957. 384 p. 4,500 copies printed.
- Gen. Ed.: Stanyukovich, Kirill Petrovich, Doctor of Technical Sciences, Professor; Reviewers: Serebryakov, M.Ye., Doctor of Technical Sciences, Professor; Orlov, B.V., Doctor of Technical Sciences, Professor; Tolochkov, A.A., Doctor of Technical Sciences, Professor; Ed.: Malyshev, M.V., Engineer; Ed. in charge: Sokolov, A.I.; Publishing Ed.: Bogomolova, M.F.; Tech. Ed.: Zudakin, I.M.

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Gas Dynamic Principles of Interior Ballistics (Cont.)

PURPOSE:

This book was approved by the Ministry of Higher Education of the USSR as a manual for higher technical institutes. It can also serve as a textbook for university students of mechanics and mathematics, and for students of higher military institutes.

COVERAGE:

This work contributes to the theory of internal ballistics by including chapters on wave processes occurring during a discharge. Principles of gas dynamics of transient processes are presented as a new element in the study of internal ballistics. The analytical solution of the Lagrange ballistic problem and the motion of a missile and of the gas-powder mixture in the case of true burning are discussed. There problems are also treated numerically. Simple and accurate solutions of problems in classical internal ballistics for relatively large projectiles are given by means of the generalized Drozdov method. One of the coauthors of this work, Betekhtin S.A., died in 1953, in the line of duty.

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Gas Dynamic Principles of Interior Ballistics (Cont.)

Chapter VI was written by S.A. Betekhtin, Chapter III and IV by S.M. Vinitskiy, Chapter II by S.M. Vinitskiy and K.P. Stanyukovich; Chapter VIII was written by S.M. Gorokhov, Chapters I and V and the introduction by K.P. Stanyukovich and Chapter VII by I.D. Fedotov. There are 82 figures, 59 tables, and several references in footnotes.

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AVAILABLE: Card 10/10	Library of Congress	BK/lsb 27 May 1958	

FEDETOV, I.D.

AUTHORS: Pavlov, V. A., and Kryuchkov, N. F., and Fedetov, I. D.

TITLE: New peaks of internal friction at low temperatures.

(Novye piki vnutrennego treniya pri nizkikh temperaturakh).

PERIODICAL: Fizika Metallov i Metallovedeniye, 1957, Vol.5, No.2, pp.371-372 (USSR)

ABSTRACT: The internal friction was measured at low temperatures for pure aluminum and an aluminum alloy with 3% magnesium. The internal friction was measured for transverse oscillations with frequencies of the order of 1200 to 1300 c.p.s. using a test set-up described in an earlier paper (Ref.1). The specimens were made in the form of circular rods 200 mm long and 11 mm dia. The measurements have shown that in the temperature range from room temperature down to that of liquid nitrogen two maxima of internal friction exist in the temperature ranges -50 to -90 C and -170 to -180 C respectively. On approaching the temperature of liquid nitrogen, the internal friction increases which indicates the possibility of existence of an internal friction peak at temperatures below -196 C, see Fig.1. The peak of internal friction in the range -170 to -180 C was earlier observed on a number of metals and was attributed to the movement of dislocations under

New peaks of internal friction at low temperatures. 126-2-27/35

the effect of stresses (Ref.2). The peak of internal friction at -50 to -80°C and the increased internal friction at -196°C have been observed for the first time. The obtained internal friction peaks cannot be explained easily by the movement of dislocations since a sufficiently strong dependence is observed of the amplitude of the peaks on the preceding heating temperature. From the obtained data the activation energies were determined of the processes which correspond to the internal friction peaks. For the internal friction peaks at -50 to -80°C the activation energy equals 0.5 eV, for the peak at -170 to -180°C it equals 0.14 eV and for the internal friction in the range of -196°C it equals about 0.05 eV. In accordance with the classification of defects of the crystal lattice according to their mobility (Ref.3), the most likely assumption is that the internal friction peak at -50 to -80°C corresponds to diffusion of individual vacancies, the peak at -170 to -180°C corresponds to the diffusion of groups of vacancies and the increased internal friction at -196°C corresponds to the diffusion of more mobile defects, which may possibly Card 2/3 have penetrated into the inter-nodes of the atoms.

New peaks of internal friction at low temperatures. 126-2-27/35

Attention is drawn to the fact that the total quantity of defects of a crystal lattice in aluminum alloys with magnesium is larger than in pure aluminum. Further investigations will permit obtaining more accurate conceptions on the nature of the peaks of internal friction. The internal friction as a function of the temperature is graphed in Fig.l for pure aluminum and for an alloy of aluminum with 3% magnesium. There are 1 figure and 3 references, 2 of which are Slavic. (Note: This is a complete translation).

SUBMITTED: July 22, 1957.

ASSOCIATION: Institute of Physics of Metals, Ural Branch of the Ac.Sc. USSR (Institut Fiziki Metallov Ural'skogo Filiala AN SSSR).

AVAILABLE: Library of Congress.

Card 3/3

TEDUTON, LD

126-2-29/35

AUTHORS: Pavlov, V.A., Kryuchkov, N. F., and Fedotov, I. D.

TITLE: Temperature dependence of the modulus of elasticity of

alloys of nickel with copper. (Temperaturnaya

zavisimost' modulya uprugosti splavov nikelya s med'yu). PERIODICAL: Fizika Metallov i Metallovedeniye, 1957, Vol.5, No.2,

pp. 374-376 (USSR)

ABSTRACT: The temperature dependence of the modulus of elasticity of alloys of nickel with copper was investigated for the purpose of studying the character of the changes of the inter-atomic bond forces on changing the concentration of a solid solution. The modulus of elasticity was measured during transverse vibrations of the specimen with a frequency of about 700 c.p.s. on a test rig described in an earlier paper (Ref.1) in the temperature range -196 to +700 c. The measurements at low temperatures were effected inside a specially designed cryostat made of a 600 mm long, 35 mm dia. thick walled copper tube with a 5 mm wide slot at one side of the bottom of the tube. From the outside a copper coil was soldered on for feeding in liquid nitrogen. The tube and the coil were fitted inside a housing filled with thermal insulation. The

Card 1/4 specimen was suspended in the cryostat on two thin wires

Temperature dependence of the modulus of elasticity of alloys of nickel with copper.

which were brought out to the outside through the slot in the tube and were connected to the exciter and to the receiver of the oscillations. The uniformity of the temperature distribution along the specimens was maintained within the limits of 1°C. The specimens were of 7 mm dia. and 200 mm long. The initial materials for preparing the specimens were 99.9% pure electrolytic nickel and electrolytic copper with a total quantity of admixtures not exceeding 0.05% including 0.02% oxygen. The metals were smelted in vacuum of 10° mm Hg for eliminating games and then the alloys were produced in a high frequency furnace under vacuum. The ingots were forged into square cross section rods of 14 x 14 mm dia; the pure nickel specimens were annealed in vacuum at 800°C, whilst the alloy specimens were annealed at 900°C for three hours and the same annealing procedure was applied for all the alloys which were used for studying the mechanical properties. The results of the measurements are graphed in Fig.1 where curve 1 expresses the temperature dependence Card 2/4 of the modulus of elasticity of the pure nickel, whilst

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Temperature dependence of the modulus of elasticity of alloys of nickel with copper.

curves 2, 3 and 4 give the same dependence for nickel alloys containing 10, 20 and 40% Cu. The modulus of elasticity was measured without applying a magnetic field and, therefore, the defect of the modulus caused by magnetostriction phenomena is clearly pronounced. The temperature dependence of the modulus of elasticity for pure nickel is in good agreement with the results of measurements published by Köster, W. (Ref.2). It can be seen from the graph that the modulus of elasticity falls monotonously with increasing concentration of the copper in the solid solution throughout the investigated temperature range. This is in agreement with the results of X-ray investigations of the characteristic temperature carried out on the same alloy by Noskova, N. I., and Favlov, V. A., (to be published in the same journal). Fukuroi, T. and Shibya, J., (Ref.4) observed a non-monotonous change of the modulus of elasticity as a function of the copper concentration, namely, that the modulus increased somewhat in the range of concentrations of 30 to 40% Cu. In alloys of nickel with copper, a nonuniform Card 3/4distribution of the copper atoms in the volume of the solid

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Temperature dependence of the modulus of elasticity of alloys of nickel with copper.

solution can take place (Ref.5). Certain changes in the modulus of elasticity, which depend on the preliminary thermo-mechanical treatment of the alloys, may be due to this phenomenon. In the here described case all the alloys were annealed at a sufficiently high temperature and the non-uniform distribution of the atoms in the solid solution was apparently little pronounced. For such alloys it is of interest to investigate the dependence of the modulus of elasticity on the thermomechanical treatment. There are 1 figure and 5 references, 2 of which are Slavic.

(Note: This is a complete translation).

SUBMITTED: July 25, 1957.

ASSOCIATION: Institute of Physics of Metals, Ural Branch of the Ac.Sc. USSR. (Institut Fiziki Metallov Ural'skogo Filiala AN SSSR).

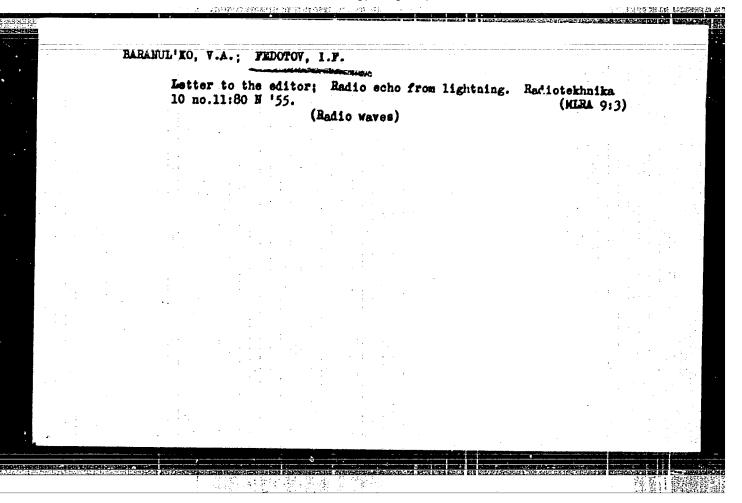
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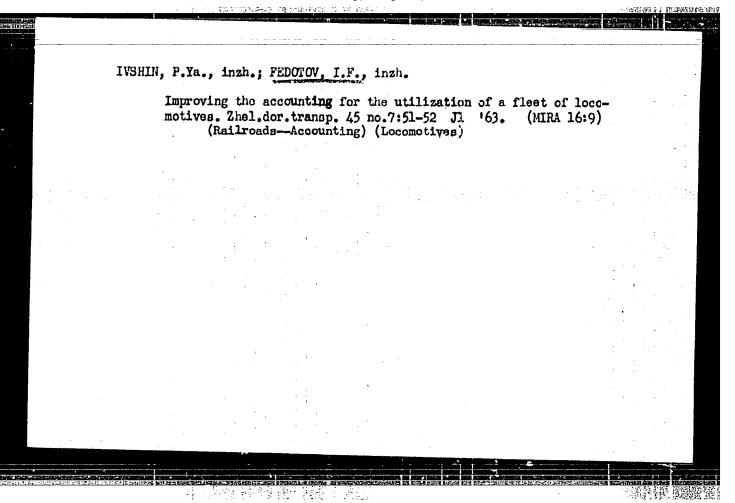
Card 4/4

BUIGATOVA, A.A., ORLEHKO, L.P., FEDOTOV, I.D.

Loosening stuck drills without tearing off the pipe. Prikl. genfis. (MIRA 13:8)

(Oil well drilling)

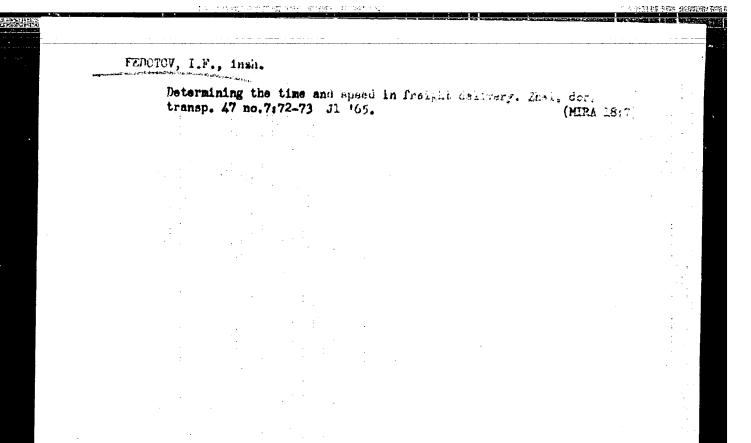




YAKIN, A.A., inzh.; GOL'DSETEYN, V.M., kand. tekhn. nauk; BORODA HEV, I.P., kand. tekhn. nauk; FELOTOV, I.F., kand. tekhn. nauk. retsenzent; KRIMERRAN, M.H., inch., red.

[Calculations for bulldozers with track-laying treads]
Raschet bul'dozera na gusenichnom khodu. Moskva, 1963.
128 p. (NIRA 18:1)

1. Moscow. Vsesoyuznyy nauchno-issledovateliskiy institut stroitelinogo i dorozhnogo mashinostroyeniya.



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ACC NR. AP6025675

UR/0413/66/000/013/0145/0145 SOURCE CODE:

INVENTORS: Akat'yev, V. I.; Fedotov, I. F.; Aver'yanov, S. V.

ORG: none

TITLE: A device for spreading layers of liquid adhesive substances on fabric. Class

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 145

TOPIC TAGS: glue, fabric, fabric coating, filler, aircraft propeller

ABSTRACT: This Author Certificate presents a device for spreading layers of adhesive substances on fabric such as, for example, honeycombed filler in the interior of aircraft propellers. The device contains a glue-applying mechanism consisting of gluedepositing and glue-spreading rollers placed in a bath, a drying chamber with exhaust ventilation, and an arrangement for circulating and pressing the adhesive substance in the bath. The latter arrangement consists of a tank, a mixer, interconnected pressure and exhaust pumps, a glue mixer with a glue-spreading mechanism, a drive, and a control panel. To improve the productivity and quality of the fillers, the device is provided with a dual chain conveyer with locks rigidly connected to the chain. The locks contain a bearing plate and a pin with an aperture and with a catch for directing the bearing plate (the aperture and the pin are freely connected to the plate), and a lever with grooves on an axle rigidly connected to the bearing plate and freely

UDC: 629.13.01/06

APPROVED FOR RELEASE: Thursday, July 27, 2000

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ACC NR: AP6025675

connected through the apertures to the directing plates that move and turn the honey-combed filler throughout its cycle (see Fig. 1).

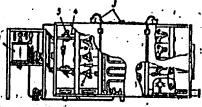


Fig. 1. 1 - circulating arrangement; 2 - glue-spreading mechanism; 3 - mechanism for automatic opening and closing of the bath lids; 4 - conveyer chain; 5 - lock

To maintain a constant viscosity of the adhesive substance in the course of the process, the bath is provided with lids that can be automatically opened and closed. Orig. art. has: 1 figure.

SUB CODE: 13, 11/ SUBM DATE: 03May65

Card 2/2

FEDOTOV, I.G.

AUTHOR:

Fedotov, I.G., Dotsent

3-58-6-18/34

TITLE:

The Chair Is Conducting Complex Examinations (Kafedra provodit

kompleksnyye ekzameny)

PERIODICAL:

Vestnik Vysshey Shkoly, 1958, Nr 6, pr 72 - 74 (USSR)

ABSTRACT:

In order to improve the training of specialists, the Chair "Building Production" of the Saratov Automobile-Roads Institute had set itself the task of giving the students more independence by abolishing the practice of very close supervision over their work, especially in the senior course. The weekly, and sometimes daily control of the students lessons took much of the instructors' time and developed irresponsibility on the students part. To put the work on a new basis, the chair has reorganized all the lessons and effected some changes in the method of delivering lectures. More time has been allotted for the students' independent laboratory work, and more emphasis is being put on the chair's scientific research work. The author deals with the contact established with the building organizations of Saratov and with the changed form of examinations.

ASSOCIATION:

Saratovskiy avtomobil'no-dorozhnyy institut(Saratov Highway

Institute)

Card 1/1

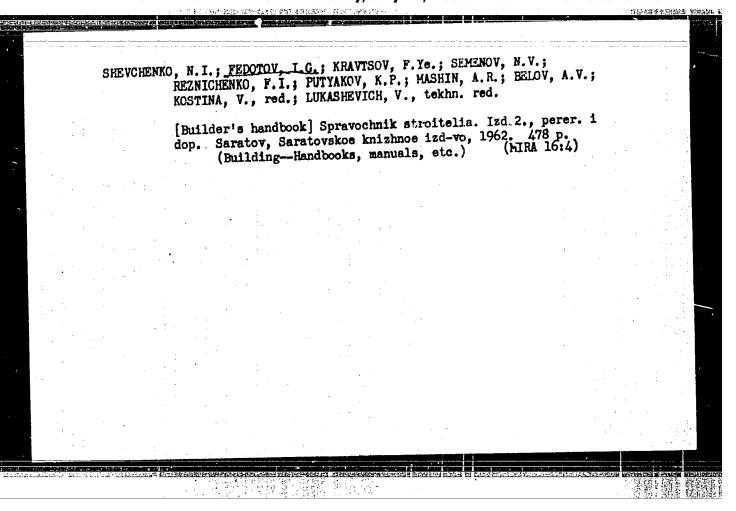
K.P.; REZNICHENKO, F.I.; SEMENOV, N.S.; SHEVCHENKO, N.I.;
BAUM, G., red.; BYKOVA, E., tekhn.red.

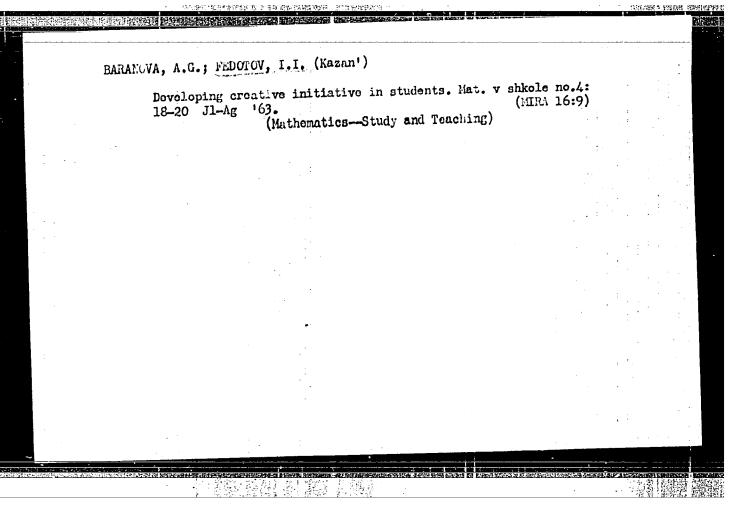
[Brief handbook for builders] Kratkii spravochnik stroitelia. Saratov, Saratovskoe knizhnoe izd-vo. 1959. 521 p.

(MIRA 12:12)

(MINA ICIA

(Building)





38175 \$/058/62/000/004/080/160 A058/A101

24.1200

AUTHORS:

Kuznetsov, V. N., Fedotov, I. I.

TITLE:

Variation of the propagation velocity and attenuation of ultrasonic

waves in magnetized ferrites

PERIODICAL: Referativnyy zhurnal, Fizika, no. 4, 1962, 38-39, abstract 46322 (V sb. "Primeneniye ul'traakust. k issled. veshchestva". v. 13,

Moscow, 1961, 207-211)

Using the pulse method, the authors measured in the frequency range 1-6 Me the variation of the velocity and attenuation of longitudinal ultrasonic waves in ferrite specimens incident to application of a magnetizing field. It was established that ultrasonic velocity in ferrites increases with increase in the magnetizing field, attaining some maximum magnitude, while attenuation decreases to a limit, the magnitude of which depends on the frequency. The given effects are associated with the orientation of domain magnetic moments with respect to the field. The maximum possible increment of ultrasonic velocity in magnetic fields decreases with increasing frequency. The increments of

Card 1/2

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s/194/62/000/005/072/157 D222/D308

24,1800

15.2420 AUTHORS:

Fedotov, I.I., and Kuznetsov, V.N.

100

TITLE:

Measuring the velocity of ultrasound in a polarized

barium titanate ceramic

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1962, abstract 5-5-30 u (V sb. Primeneniye ul'traakust. k issled. veshchestva, no. 14, M., 1961,

TEXT: The results of an investigation into the influence of temperature and of a constant electric field on the velocity of propagation of longitudinal ultrasonic waves in barium titanate ceramics are given. Investigations were carried out with unpolarized polycryare given. Investigations were carried out with unpolarized polycryare given. Investigations were carried out with unpolarized polycryare stalline barium titanate in the form of circular plates of 3 - 7.5 stalline barium titanate in the form of circular plates of 3 - 7.5 stalline barium titanate. The density of the specimens mm thickness and 25 - 30 mm diameter. The density of the specimens was 5.25 - 5.45 g/cm³. The velocity of the longitudinal waves was measured with a B4-8P (V4-8R) ultrasonic flaw detector and thickness measuring instrument. It was established that the velocity of longitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the temorgitudinal waves in barium titanate ceramics changes with the tem

Measuring the velocity of ...

S/194/62/000/005/072/157 D222/D308

perature, reaching a minimum value at the temperatures of phase changes; when the polarizing field is increased the influence of temperature is reduced; the variation of ultrasonic wave velocity under the influence of the polarization has a hysteresis character. The variation of the coercive force of the remnant $\Delta v/v$ as a function of temperature between -20 to + 50°C (v is the velocity of the ultrasonic wave) was investigated. The results are given in the form of graphs. 10 references. [Abstractor's note: Complete translation].

Card 2/2

	S/275/65/000/001 D413/D303	/027/035
AUTHOR:	Pedotov, 1. I.	
TITLE:	The variation in the velocity of ultrasoniduring the process of polarization of bari in constant fields	c waves um titanate
	Referativnyy zhurnal, Elektronika i yeye p no. 1, 1963, 11, abstract 1V 82 (In collect mensniye ul'traakust. k iseled. veshchestv M., 1961, 201-205)	a, no. 15,
tion in v nate as a larizing to an acc min in fi	experimental investigation has been made into elocity of longitudinal ultrasonic waves in ba function of the magnitude and time of action field. The velocity was measured by the resonauracy of 1%. The maximum variation in velocity elds up to 15 kV does not exceed 7%. The velocity with increase in the field intensity artime. The increase in velocity in intense field	of the po- nce technique over 140 ity increa- nd the pola-
Card 1/2		
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The variation in the ... S/275/63/000/001/027/035

ponds to the AE-effect in ferromagnetic substances. The dependence of velocity on polarization time is related to the comparative diffelectric material. Weak fields give rise only to slight rise of veloxity with time. A substantial increase in velocity occurs only in fields of intensity >4 kV/cm, whose energies are sufficient for velocity in very intense fields slows down, since the process of alteration of the domain structure is nearly complete. The relapolarization. The results of the experiment are shown in the form polarization. The results of the experiment are shown in the form polarization processes. I references: / Abstracter's note: Complete

DHOZDOV, N.A.; HELOUSOV. G.A.; FEDOTOV. I.L.; CHEBYKIN, V.N.; ZADHEFROVSKIY, A.Ya., knd.tekhn.nauk, red.; BOBROVA, Ye.M., tekhn.red.

[Selection of locomotive runs and methods of servicing locomotives]

Vybor tiegovykh plech i sposobov obslushivanila lokomotivov.

Moskva, Gos.transp. shel-dor. isd-vo, 1958.134 p. (Moscow,

Vsesoluznyi nauchno-issledovatel'skii institut shelesnodoroshnogo

transporta. Trudy, no.158)

(Loconotives)

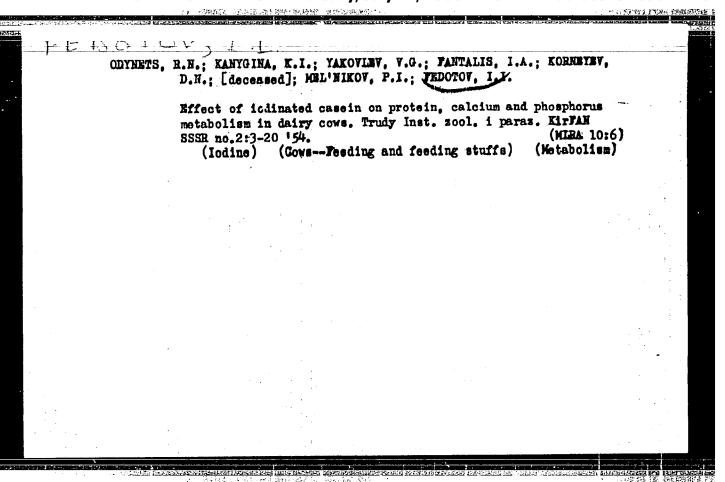
(MIRA 12:1)

25852. FEDOTOV, I. I. sovershens tvovanie krupnogo rogatogo skota v sovkhozakh kirgizii. Sov zootekhniya, 1949, No. 4, S. 17-30.

So. Letopis' Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

Printer in the state of a series of an advanced southor in the many branches of agriculture, its achievements in livestock farming and in other branches of agriculture. Intended for kolkhos and southor workers.

So: U-6472 15 Nov 1954



8/053/60/070/02/010/016 Malov, N. N., Orlova, N. P., AUTHORS: I. I.BOO6/BOO7 Selivanenko, N. Ye., Fedotov, Several Demonstration Lectures in a Course on Physics TITLE: Uspekhi fizicheskikh nauk, 1960, Vol 70, Nr 2, pp 375-377 (USSR) PERIODICAL: The present article describes several demonstrations carried ABSTRACT: out at the physics room of the Moskovskiy gosudarstvennyy pedagogicheskiy institut imeni Lenina (Moscow State Pedagogical Institute imeni Lenin), and given at the Moscow Colloquium of Physicists on May 13, 1959. The demonstrations concern: 1) Foucault's experiment, 2) Newton's third law, 3) The conservation of the mechanical angular momentum, 4) The comparison of electric oscillation frequencies, 5) The penetrability of X-rays, 6) The magnetic field in the interior of a conducting tube, and 7) a model of Stern's experiment. There are 5 figures.

Card 1/1

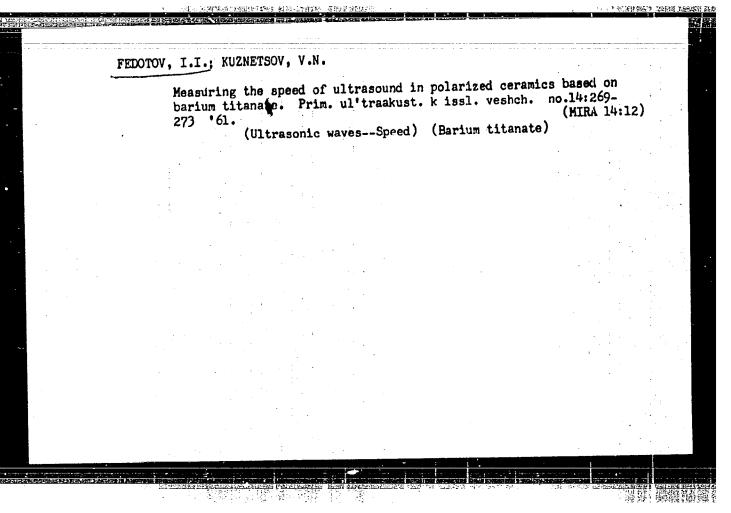
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USSR/Engine	ering - Construction		
Card 1/1	2 Pub. 70 - 4/11		
Authors	Molochnikov, N. L., and Fedotov, I. L.		
Title	New arrangement for elimination of ice around dredgers		
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Periodical Abstract	Mekh. stroi. 4, 12-14, Apr 1954 A new arrangement for the elimination of ice around dred on the construction of the large Kuybyshev Hydroelectric the Volga River, is described. Each dredge was provided propeller-type pumps which, by their rotating motion, do	s Station on with 6 - 10 not allow	
	A new arrangement for the elimination of ice around dred on the construction of the large Kuybyshev Hydroelectric the Volga River, is described. Each dredge was provided propeller-type pumps which, by their rotating motion, do ice to form or break up already formed ice. Illustration	s Station on with 6 - 10 not allow	
Abstract Institutio	A new arrangement for the elimination of ice around dred on the construction of the large Kuybyshev Hydroelectric the Volga River, is described. Each dredge was provided propeller-type pumps which, by their rotating motion, do ice to form or break up already formed ice. Illustration	s Station on with 6 - 10 not allow	
Abstract	A new arrangement for the elimination of ice around dred on the construction of the large Kuybyshev Hydroelectric the Volga River, is described. Each dredge was provided propeller-type pumps which, by their rotating motion, do ice to form or break up already formed ice. Illustration	s Station on with 6 - 10 not allow	
Abstract Institutio	A new arrangement for the elimination of ice around dred on the construction of the large Kuybyshev Hydroelectric the Volga River, is described. Each dredge was provided propeller-type pumps which, by their rotating motion, do ice to form or break up already formed ice. Illustration	s Station on with 6 - 10 not allow	
Abstract Institutio	A new arrangement for the elimination of ice around dred on the construction of the large Kuybyshev Hydroelectric the Volga River, is described. Each dredge was provided propeller-type pumps which, by their rotating motion, do ice to form or break up already formed ice. Illustration	s Station on with 6 - 10 not allow	
Abstract Institutio	A new arrangement for the elimination of ice around dred on the construction of the large Kuybyshev Hydroelectric the Volga River, is described. Each dredge was provided propeller-type pumps which, by their rotating motion, do ice to form or break up already formed ice. Illustration	s Station on with 6 - 10 not allow	

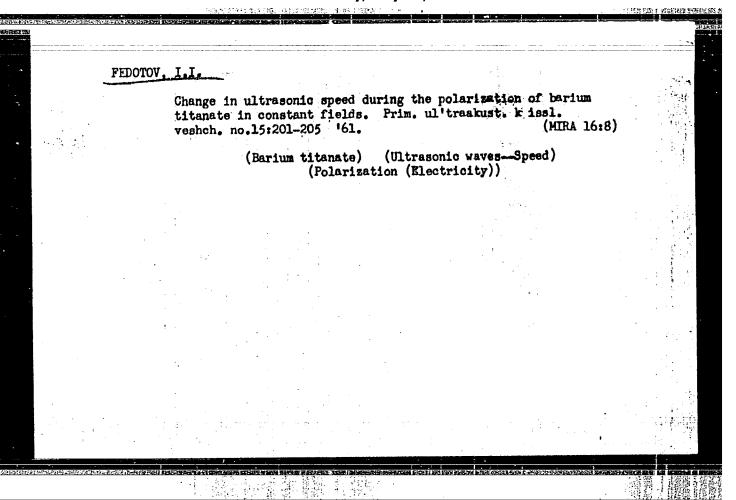
INCOLOV, N.A.; SEMIN, A.N.; FEDOTOV, I.I.; BARANCHETEV, S.S.; KAMENEV, N.H.

[Location and automation of supply systems on railroads with diesel and electric traction] Rasmeshchenie i avtomatizatsiia ekipirovochnykh ustroistv pri elektrovoznoi i teplovoznoi tiage. Moskva, Vses.iud-ko poligr, ob*edinenie m-va putei soob., 1960. 73 p. (Moscow. Vsesniusnyi nauchno-issledovatel*skii institut zheleznodorozhnogo transportu. Trudy, no.199).

(Railroads—Equipment and supplies)

(Railroads—Equipment and supplies)





FEDOTOV, I.I., inzh.; SHUVALOV, N.G., inzh.; ZADNEPROVSKIY, I.Z., inzh.; KHAZANOVSKIY, P.M., inzh.; SLOMCHINSKIY, V.V., inzh.

New method for saturating and drying the stator windings of asynchronous electric motors. Vest. elektroprom. 32 no.4:28-31 Ap '61. (MIRA 15:5)

(Electric motors, Induction-Windings)

FEDOTOV, I.I., inzh.; GUR'YEV, G.M., inzh.; PETRULENKO, V.Ye., inzh.;

KHAZANOVSKIY, P.M., inzh.

Saturation and drying of the windings of asynchronous motors.

Vest. elektroprom. 33 no.10:71 0 '62. (MIRA 15:9)

(Electric motors, Induction—Drying)

RYLEYEV, G.S.; KRYUGER, P.K.; KAZAKOV, V.N.; VIL'KEVICH, B.I. Prinimal uchastiye BELEN'KIY, M.N.; FEDOTOV, I.I., kand. tekhn. nauk, retsenzent; LUGININ, N.G., kand. tekhn. nauk, retsenzent; CHEBYKIN, V.N., kand. tekhn. nauk, retsenzent [deceased]; ONISHCHENKO, I.T., kand. tekhn. nauk, retsenzent; TELICHKO, V.G., inzh., retsenzent; ISIKOV, Ye.N., inzh., retsenzent; ROZHDESTVENSKIY, A.S., inzh., retsenzent; MEDVEDEVA, M.A., tekhn. red.

[Management and operation of diesel locomotives] Teplovoznoe khoziaistvo. Izd.2., perer. i dop. [Ey] G.S.Ryleev i dr. Moskva, Transzheldorizdat, 1963. 290 p. (MIRA 17:3)

ACCESSION NR: AP4020296

8/0139/64/000/001/0032/0038

AUTHOR: Pedotov, I. I.

TITLE: AE-effect and retardation of polarization processes in barium titanate

SOURCE: IVUZ. Fisika, no. 1, 1964, 32-38

TOPIC TAGS: barium titanate, polarization, modulus of elasticity, ballistic galvanometer, nonlinear curve, polarized crystal

ABSTRACT: Experimental investigations have been made of changes in the modulus of elasticity and polarization vector in ceramic barium titanate as functions of electric field potential and its time rate of change. The polarization retardation process was measured using a ballistic galvanometer with ballistic residue n as a function of time t. For E=2.5 ky/cm n increases, reaches a maximum and drops sharply. The relationship between the polarization emf, P(t), and n(t) is shown to be linear. The relative change in the Young's modulus $\Delta E/E$ is presented graphically as a function of E and t. Increasing the magnitudes of E(ky/cm) and t(minutes), the relative growth in Young's modulus shows qualitatively the same properties as the increase in the polarization vector. The curve is a monotonous and nonlinear growth and changes linearly with the square of the polarization

Card 1/2

	vector. Among the reasons given to explain this AE-effect are the progrowth of 90 domains related to large internal stresses in the crystal deformations created at the surface layer of a homogeneous polarized crauthor expresses his gratitude to Professor N. N. Malov under whose guid work was accomplished." Orig. art. has: 9 figures and 3 formulas.	and larg	e ''Th <i>e</i>
	ASSOCIATION: Ryazanskiy gospedinstut (Ryazan State Teachers Institute)	•	
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ACCESSION NR: APLO13528

8/0181/64/006/002/0602/0610

AUTHOR: Fedotov, I. I.

TITLE: The effect of changes in the elastic modulus in barium titanate

SOURCE: Fisika tverdogo tela, v. 6, no. 2, 1964, 602-610

TOPIC TAGS: elastic modulus, barium titanate, temperature dependence, ultrasonic wave

ABSTRACT: Experimental studies were made on the dependence of Young's modulus on temperature, magnitude of electrical field, and duration of electrical field. The samples were round plates of barium-titanate ceramic material and were tested by transmission of ultrasonic longitudinal waves through the thickness of the plate. The modulus-change effect ($\Delta E/E$) changes steadily but nonlinearly with increase in electrical field strength and with duration of the field. Young's modulus changes with temperature and reaches minimal values in the regions of phase transition. It changes in the electrical field along the path of a hysteresis curve, but neither its value nor sign depend on direction of the polarising field. The effect is even. The basic curves of $\Delta E/E$ are similar in shape to the

Card 1/2

ACCESSION NR: APLO13528

polarization curves. The principal cause of the effect and its dependence on time is found in domain processes. Young's modulus changes chiefly by 90° domain processes or by great deformation in single-domain crystals in the direction of the spontaneous-polarization axis. Since the modulus effect and polarization processes

the spontaneous-polarization axis. Since the modulus effect and polarization have similar trends, the modulus effect may be used for studying retardation processes of polarization by ultrasonic methods. "In conclusion, the author thanks Professor N. N. Malov for his constant aid in the work." Orig. art. has: 11 figures and 3 formulas.

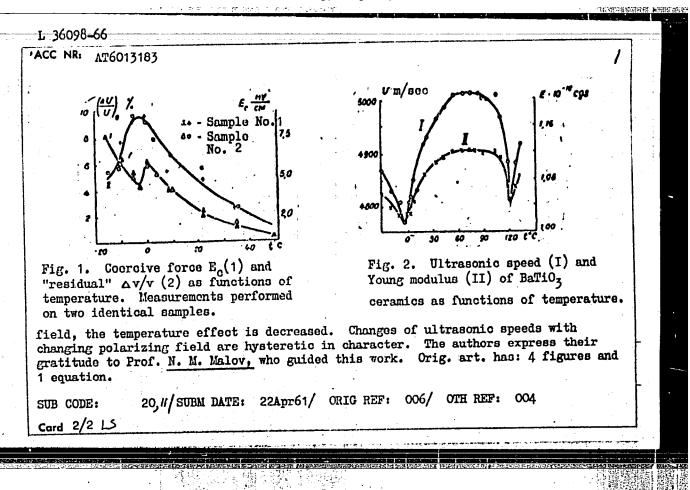
ASSOCIATION: Ryazanskiy gosudarstvennywy pedagogicheskiy institut (Ryasan State Pedagogical Institute)

SUBMITTED: 24Apr63 DATE ACQ: 034ar64 ENCL: 00

SUB CODE: 83 OTHER: 018

Card 2/2

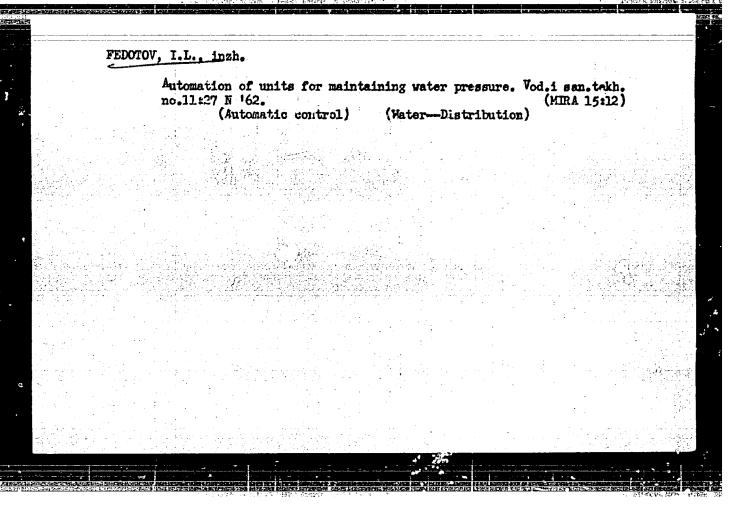
L 36098-66 - EVT(m)/EWP(e)/EWP(k)/EVP(t)/ETI	- F
SOURCE CODE: UR/0000/61/000/000/0269/02/3	=
AUTHORS: Fedotov, I. I.; Kuznetsov, V. N.	
ORG: none	
TITLE: Measurement of the speed of ultrasound in polarized ceramics of barium titanate	
SOURCE: Noscow. Oblastnoy pedagogicheskiy institut. Primeneniye ul'traakustiki k issledovaniyu veshchestva, no. 14, 1961, 269-273	
TOPIC TAGS: barium titanate, electron polarization, ultrasound ultrasonic wave propagation, earsmies, tamperature effect, physics laboratory instrument /PIU-I physics laboratory instrument ABSTRACT: The effect of temperature and the constant electrical field upon the propagation speed of longitudinal ultrasound waves in barium titanate ceramics have been investigated. The study was conducted with the samples of nonpolarized polycrystalline barium titanate plates, 3-7.5 mm thick and 25-30 mm in diameter. Polarization of barium titanate was performed in static fields by means of experimental apparatus PIU-1. The speed of the longitudinal waves was measured with the ultrasonic flaw detection gage V4-8P. Change of coercive force and of residual $\Delta v/v$ with temperature from -20 to +50C was also investigated (see Fig. 1). It was established that the speed of the longitudinal waves changes considerably with variations of temperature, as shown in Fig. 2. With the increase of the electrical	
Card 1/2	1



FEDOTOY, I.L.

Study of the absorption method of measuring the concentration of active sediment. Izv.vys.ucheb.zav.; stroi. i arkhit. 4 no.6:84-90 161. (MIRA 15:2)

1. Vsesoyuznyy sacchnyy inzhenerno-strcitel'nyy institut.
(Water-Purification)



- 1. POPOV, V. YE. and LIBIN, B. L. and FEDOTOV, I. M.
- 2. USSR (600)
- 4. Agricultural Machinery
- 7. Mechanization of post-harvest handling of grain seed. Sel.i sem. 19 no. 12, 1952.

9. Monthly List of Russian Accessions. Library of Congress. March 1953, Unclassified.

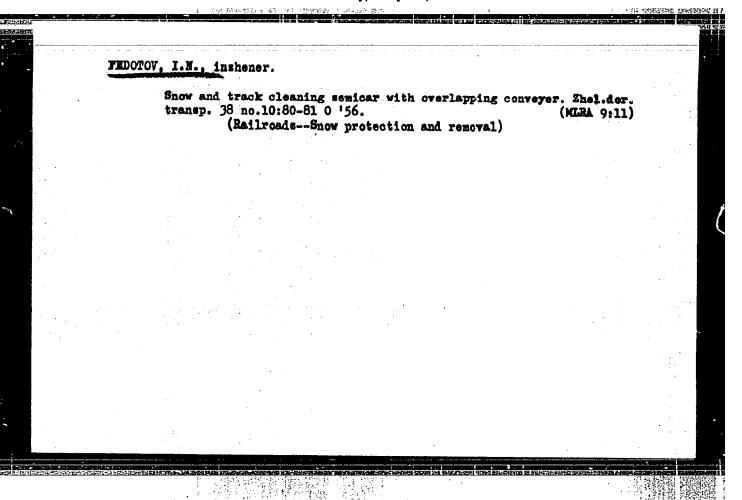
ALEKSEYEV, Sergey Vladimirovich; BAUMSHTEYN, I.A., inzh.; LIBERMAN, A.Ya.; MALOV, V.S.; RAPOPORT, M.I.; FEDOTOV, I.M.; KHOMYAKOV, M.V., inzh.; TSAREV, M.I.; FRIDKIN, L.M., tekhn. red.

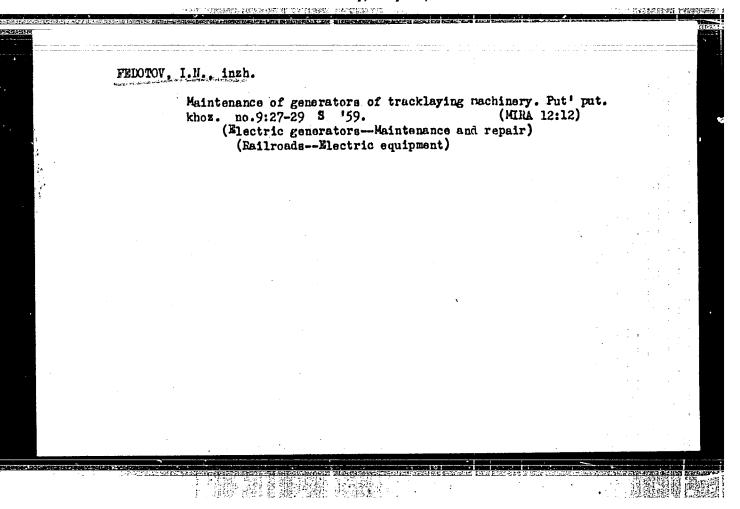
[Handbook on high-voltage power distribution networks] Spravochnik po elektricheskim setiam vysokogo napriazhenila. [By] S.V. Alekseev i dr. Izd.4., perer. i dop. Pod obshchei red. M.V. Khomiakova i I.A. Baumshteina. Moskva, Gosenergoizdat, 1962.

559 p. (MIRA 15:12)

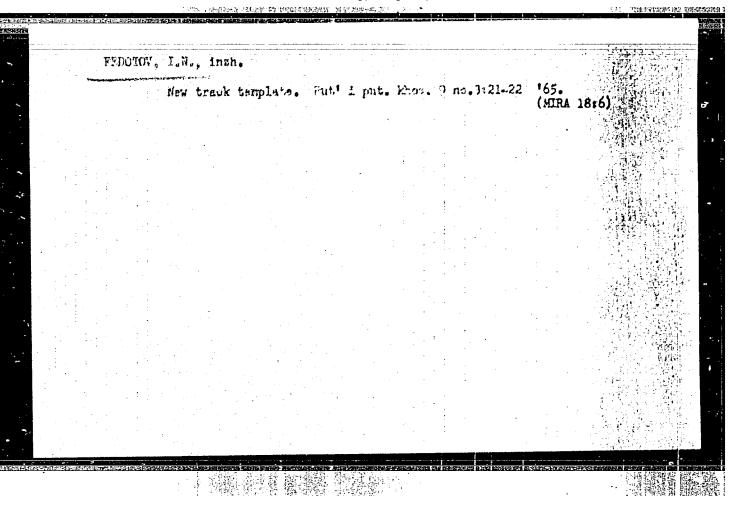
(Electric power distribution—Handbooks, manuals, etc.)

(Electric lines—Overhead)





"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041273



SUKHANOV, M.I., inshener; FEDOTOV, I.P., inshener; KOGHOVITSKIY, M.I., redaktor; OBLOV, Ye.T., redaktor; KOGHOVENKOVA, Z.A., tekhnicheskiy redaktor.

[Operator of a portable crane in shifting railway tracks in quarries]

Mashinist rel'sovogo krana na peredvishke putei v kar'erakh. Moskva,

Ugletekhisdat, 1954. 171 p.

(Granes, derricks, etc.) (Railroads--Track) (Quarries and quarrying)

FEDOTOV,

AUTHOR:

Fedotov, I.P., (Chelyabinskaya Oblast')

47-58-3-15/27

TITLE:

How to Stimulate Student activity During Lessons (Ob aktivi-

zatsii uchashchikhsya na uroke)

中國國際軍艦。由于中國

PERIODICAL:

Fizika v Shkole, 1953, Nr 3, pp 57 - 58 (USSR)

ABSTRACT:

The author gives some examples of how to awaken the interest of students and secure their active participation during les-

sons in physics.

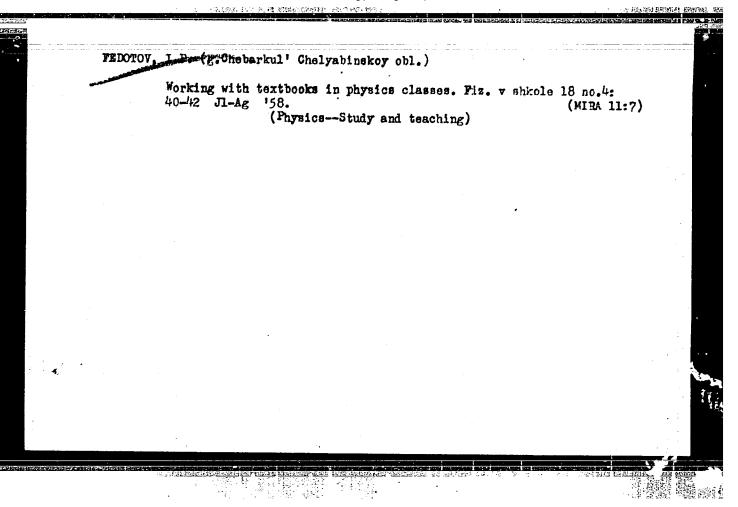
ASSCCIATION: Srednyaya shkola selektsionno-opytnoy stantsii (The Secondary School of the Experimental Selection Center), Chelyabinakaya Oblast.

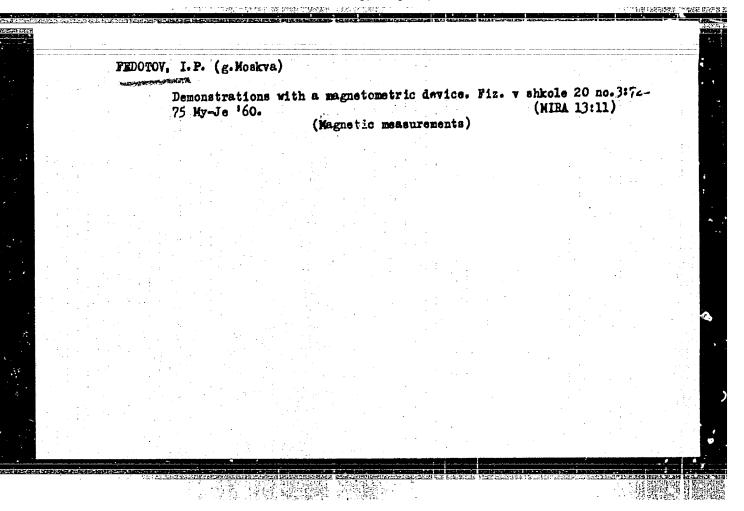
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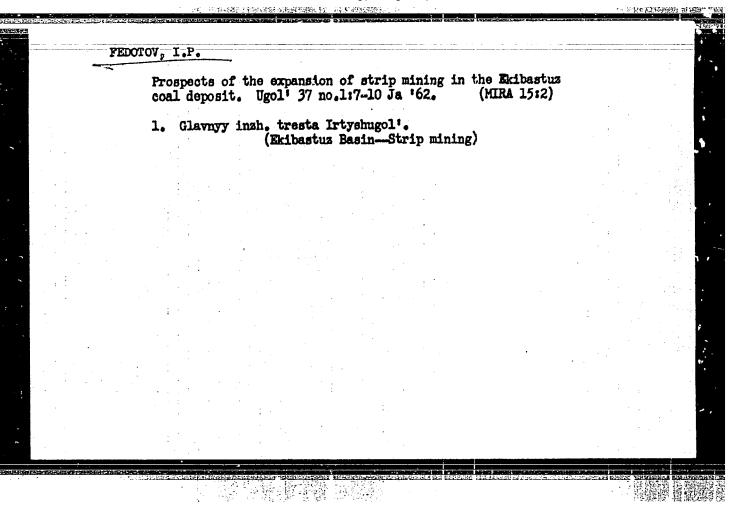
Library of Congress

Card 1/1

1. Physics-Study and teaching 2. Teaching-Methods







FEDOTOV, I.P., kand. tekhn. nauk, dotsent; YAVORSKIY, B.M., prof.

Dielectric properties of metallized cloth. Tekst. prom. 23 no.12:65-68 D '63. (MIRA 17:1)

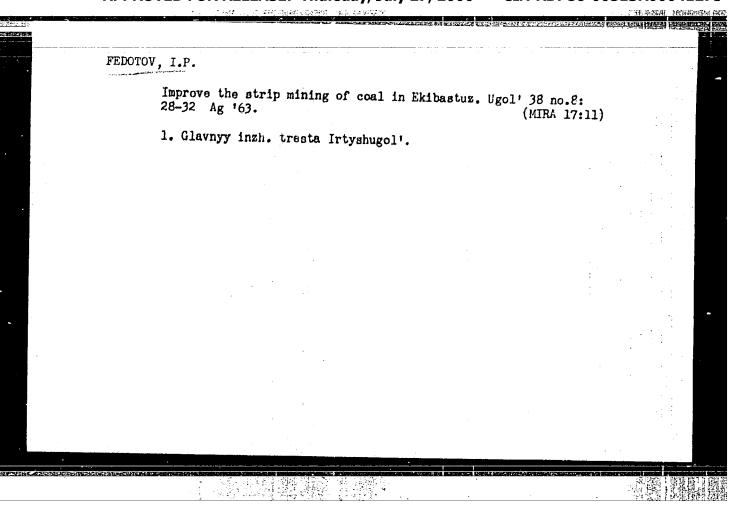
1. Kafedra fiziki Moskovskogo tekstil'nogo instituta (for Fedotov). 2. Zaveduyushchiy kafedroy fiziki Moskovskogo tekstil'nogo instituta (for Yavorskiy).

FEDOTOV, I. P., assistent; YAVORSKIY, B. M., prof.; PETROV, V. V.

Measuring the specific susceptibility of metalized fabrics. Tekst. prom. 23 no.3:81-82 Mr '63. (MIRA 16:4)

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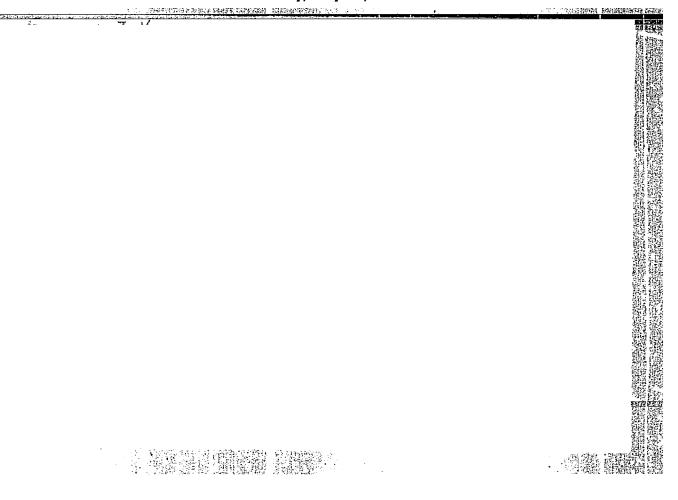
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OPAIN TO SINEMENT ON THE AND MELLING OF BEALTHUSISTING 30%. SHEMICK STEEL, G.M. Tikhodeav and I E. Sedetey. (Potallurg, 1945, No. 2, pp. 331-37). (In husefan). The welding experiments described by the authors were corried ont on as-roller strips 25 typ. In cross-section of heat-resisting steel of the Collowing compositions Carbon 0.27%, sampunete 0.27%, winter 0.93%, chrowhom 28,0%, at the 1 9:30%, paraphorus 0.025%, and enlipses 0.124%. The first wolds were nade using comported electrodes with a couting containing Cel , Cato. forry manageres and Jater-glass. The tenatic Atremeth of the welds was ic. (30-40 kg. per sq. mas) and shey could practically not be bent at all without fractioning. The weld notal was course grained. Gas welding gave even worse results, as it caused edesceive grain growith the parent metal edjorage; the uside This effect was absent with ero welde. It was smide to obtain grain rofinement in the weld metal by introducing titaling and distingut from two electrode contains. After an erous wells the williaming comparists and acrived and Florence 351, a rule 251, I Wasternal Manieur 2015, and 19 majores-adversion 2015 also a partiemany biother. The retail used for the gleetrades states ad parted

continued: 0.07%, mangenese 0.26%, silicon 0.49%, chromium 34.4%, nickel 0.21%, sulphur 0.00% and phosphorus 0.005%. These electrodes produced a fine-grained well metal, the tensile strength of the welds increasing 50-60% up to 58 kg. per sq. m., i.e., up to the tensile strength of the parent notal. The duatility, however, remained low, which is a characteristic of this steel in the cast state. The ductility could be improved by quenchin; in water from 750° to 800°C. Analyses were made to determine the begavious of the constituents of the coating during welding. The weld metal was found to contain 0.23% of titanium and 0.12% of aluminium. Both the weld metal and the adjoining parent metal were subjected to microscopic examinations and their structure-notably the presence of an intergranular carbide network in the weld metal-was related to their mechanical properties.

Immediate source clipping

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Subject

: USSR/Electricity

Card 1/1

Pub. 26 - 14/32

Authors

: Bol'nik, M. L. and I. E. Fedotov, Engs.

Title

: On the necessity of reviewing earth work production

rates and wages

Periodical :

Elek.sta., 7, 46, J1 1955

Abstract

The authors discuss possibilities of increased production rates and simultaneous increases in wages for workers. A table gives data of two types of excavators.

Institution: None

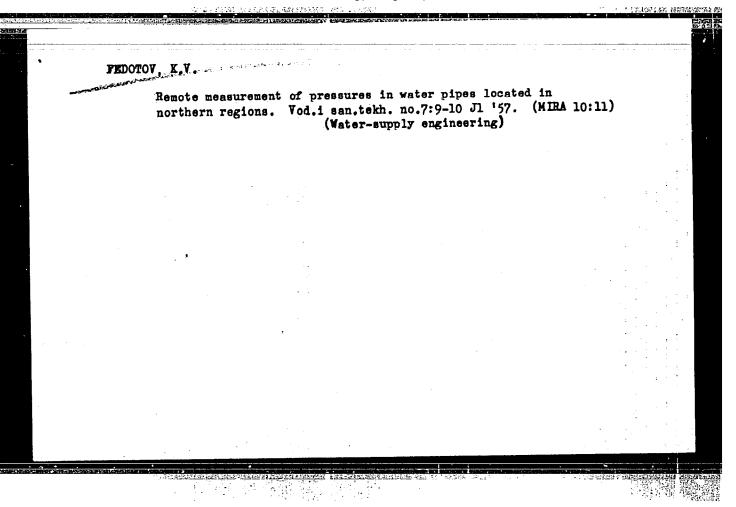
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: No date

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Double refraction and angle of extinguishing versus temperature measured for various velocity gradients in a moving stream of isotropic liquid p-asoxyanizol. Subject chemical approaches colloidal liquids in the values of its double refraction, but angle of extinguishing = 45° is same as in true liquids. Peterlih and Stuart's theory applied to calculate group dimensions of combining molecules, which account for the experimental data.

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